

FIG. 1A

Mol Percent Report

Sample = ID: 01402017 (initiated 1/15/99 6:14am) BASELINE CORRECTED

<i>Turntable Position</i>	<i>: 68</i>	<i>Sampling Interval</i>	<i>: 1.0 sec</i>
<i>Data Start</i>	<i>: 3.00 min</i>	<i>Samples In Run</i>	<i>: 72</i>
<i>Data Duration</i>	<i>: 16.00 min</i>	<i>Operator ID</i>	<i>:</i>
<i>Peak Ht Threshold</i>	<i>: 3000 uAU</i>	<i>Int. Std. Amt</i>	<i>: 250 pmol</i>

<i>Calibration File</i>	<i>: 14 JANCAL</i>	<i>(initiated 1/15/99 9:44am)</i>
<i>Reference Time</i>	<i>: 0.00 min</i>	<i>(No ISTD Peak Specified)</i>
<i>Reference Offset 1</i>	<i>: 0.03 min</i>	
<i>Reference Offset 2</i>	<i>: 0.00 min</i>	

Integration Interval : 0.0 to 16.0 min

<i>PEAK</i>	<i>RET.</i>	<i>PMOL</i>	<i>PMOL</i>	
<i>ID</i>	<i>TIME</i>	<i>BY</i>	<i>correc.</i>	
	<i>min</i>	<i>HEIGHT</i>	<i>INT SYC</i>	
ASX	2.22	1054.53	0.00	30.74 (aspartic acid)
GLX	2.65	2375.83	0.00	69.26 (glutamic acid)

TOTAL PMOLS RECOVERED 3430.36

<i>Minimum Peak Threshold:</i>	<i>3000 uAU</i>	<i>(SS peaks below threshold)</i>
		<i>(9 peaks found)</i>
		<i>(2 peaks matched)</i>

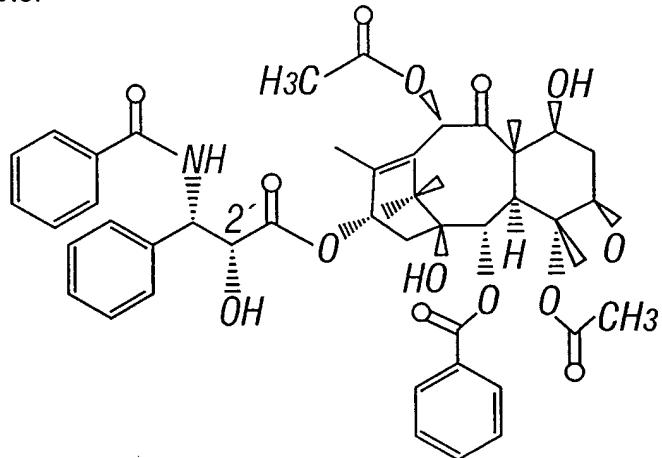
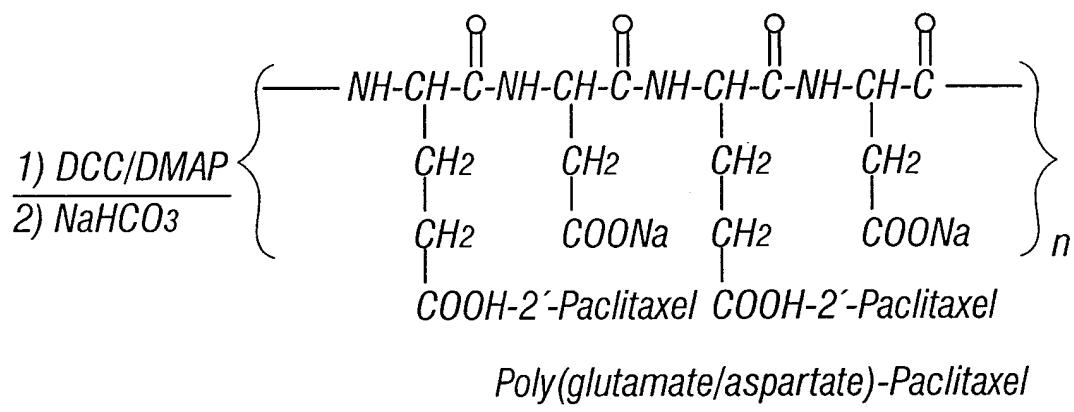
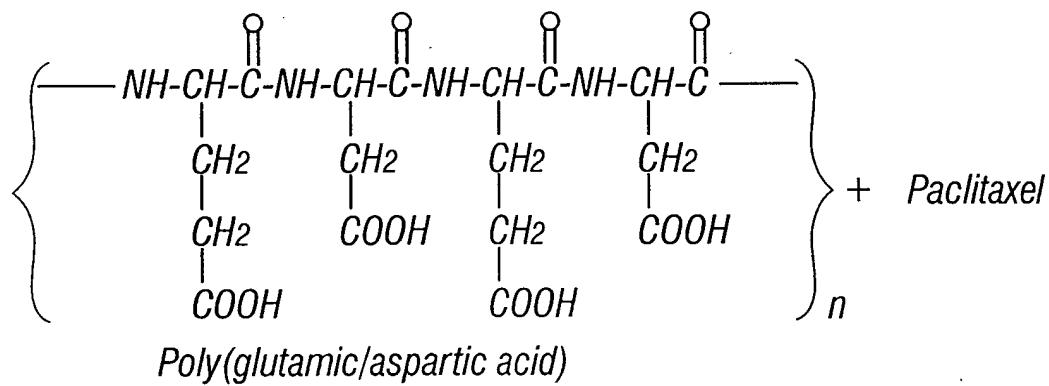
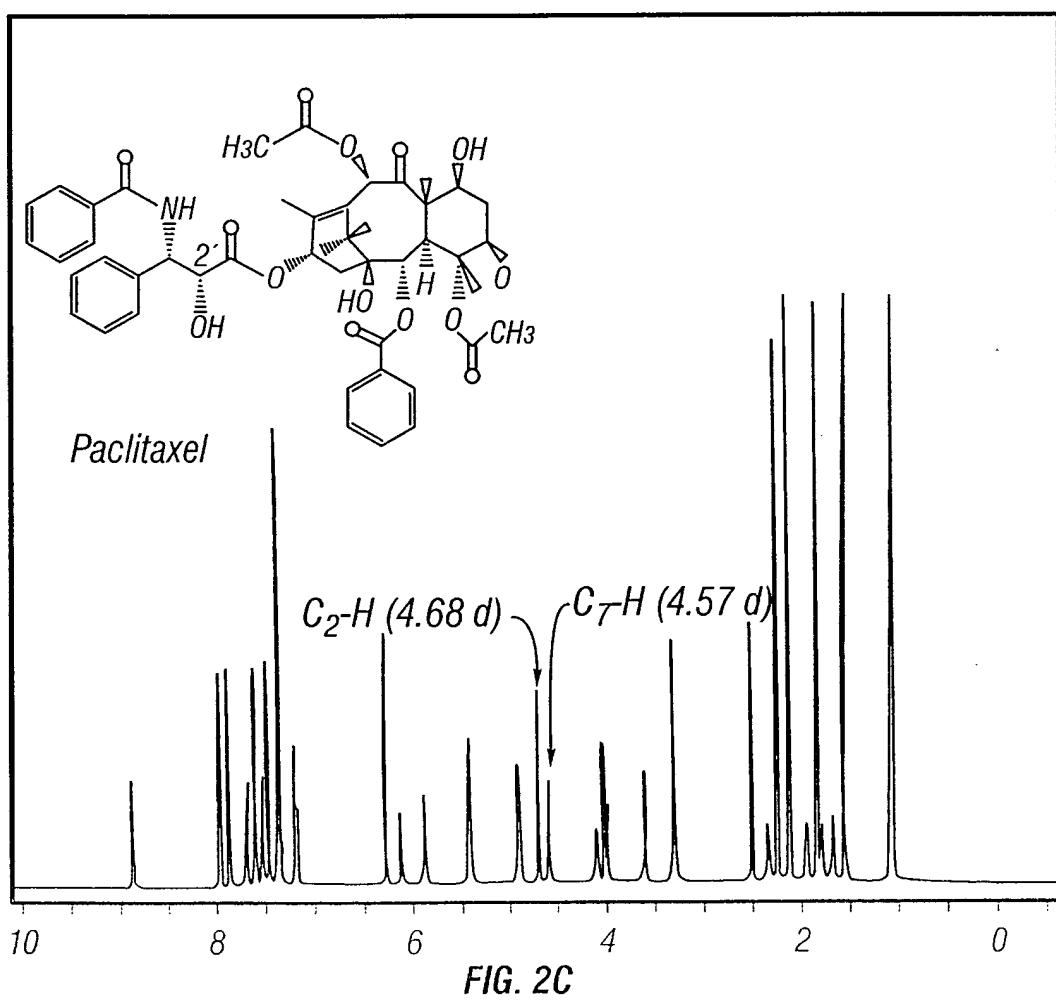
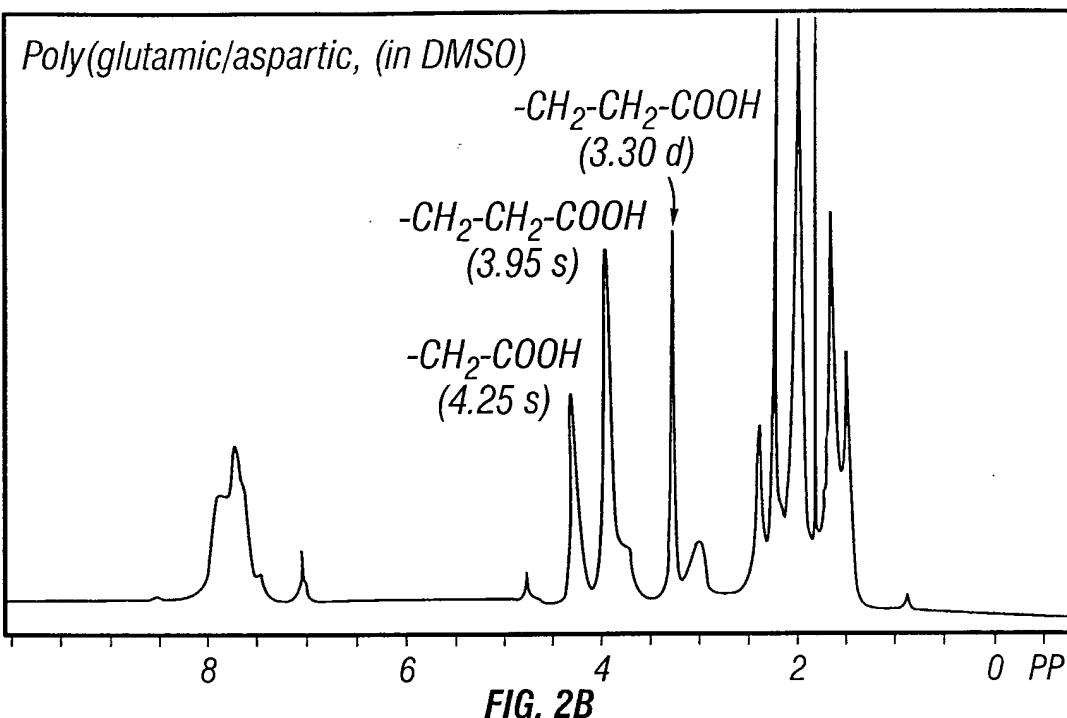


FIG. 2A

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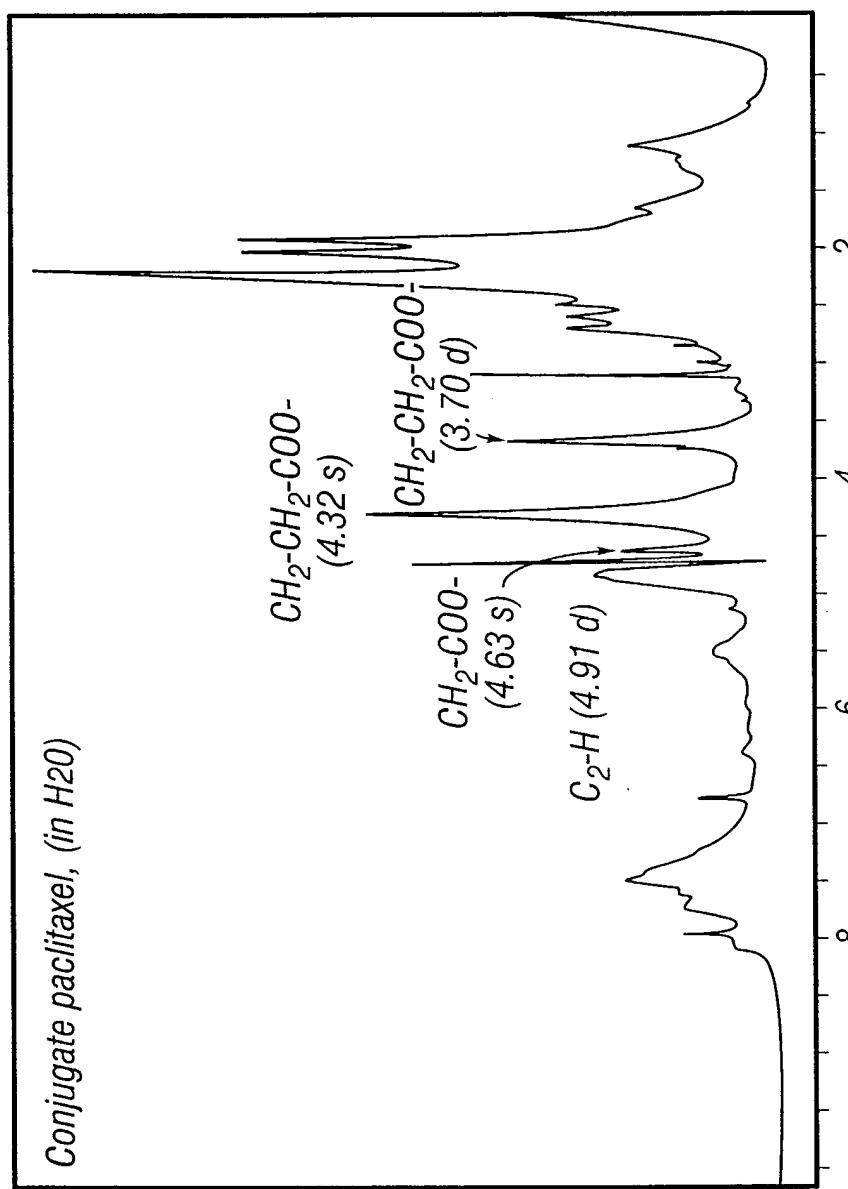


FIG. 2D

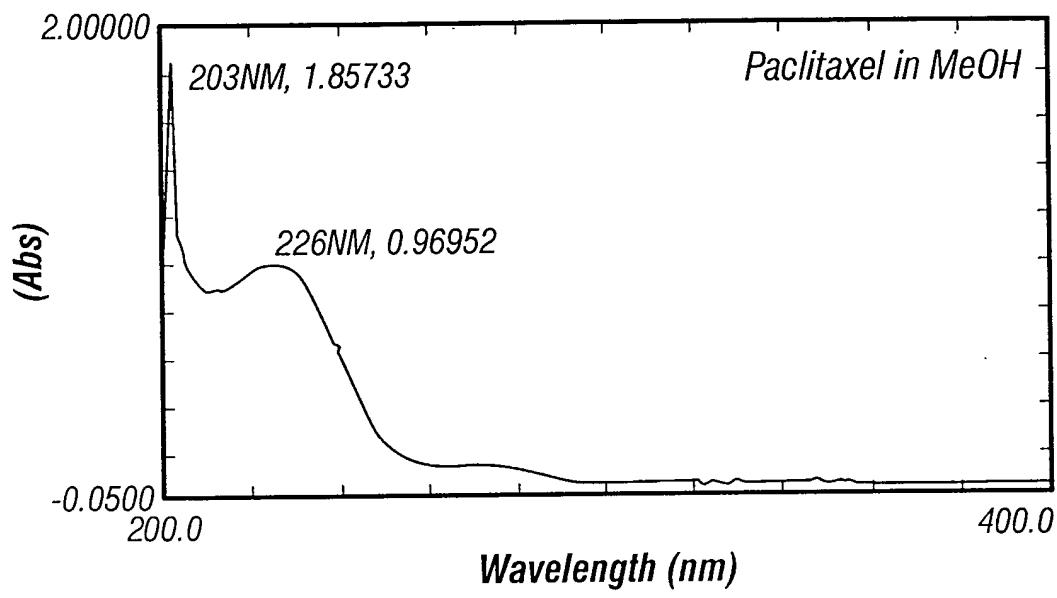


FIG. 3A

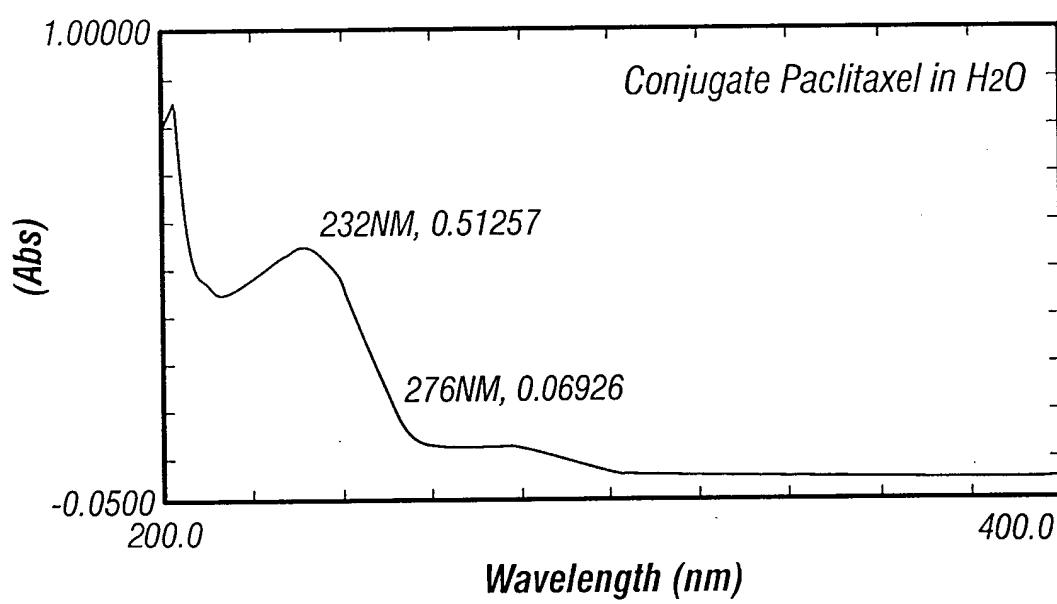


FIG. 3B

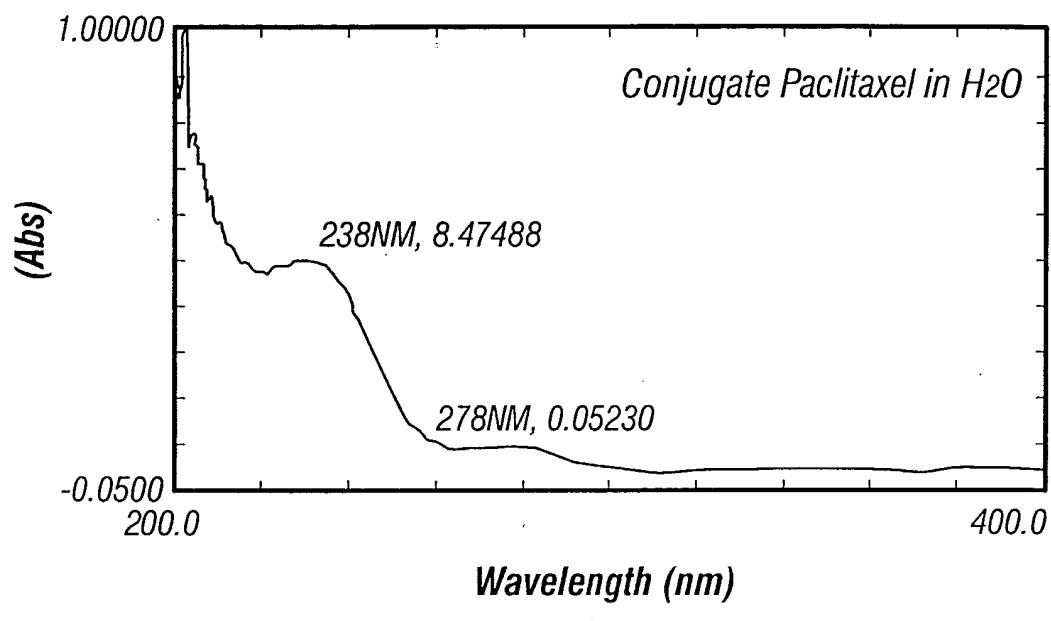


FIG. 4A

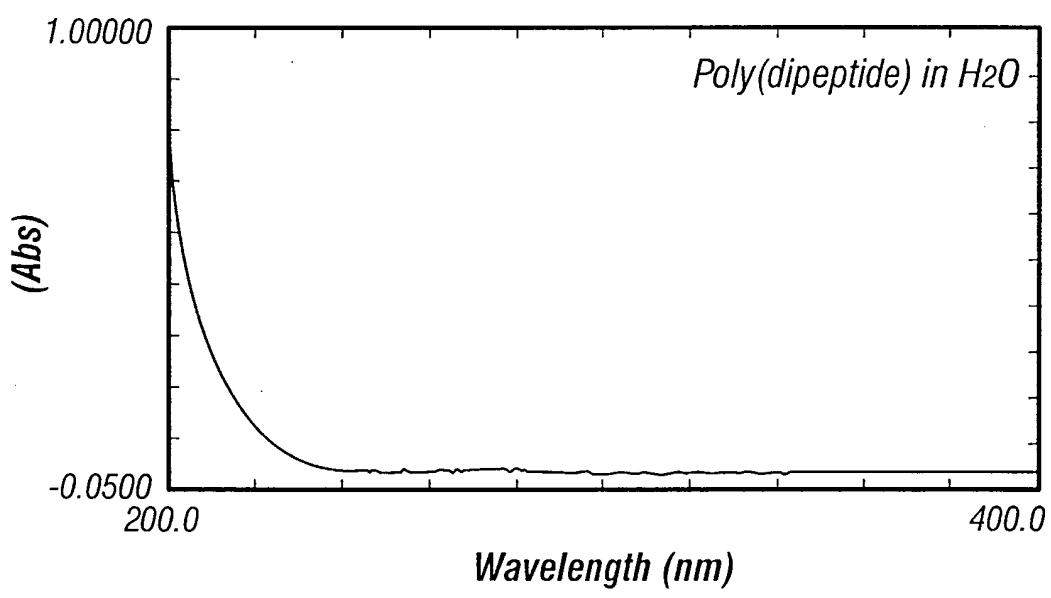


FIG. 4B

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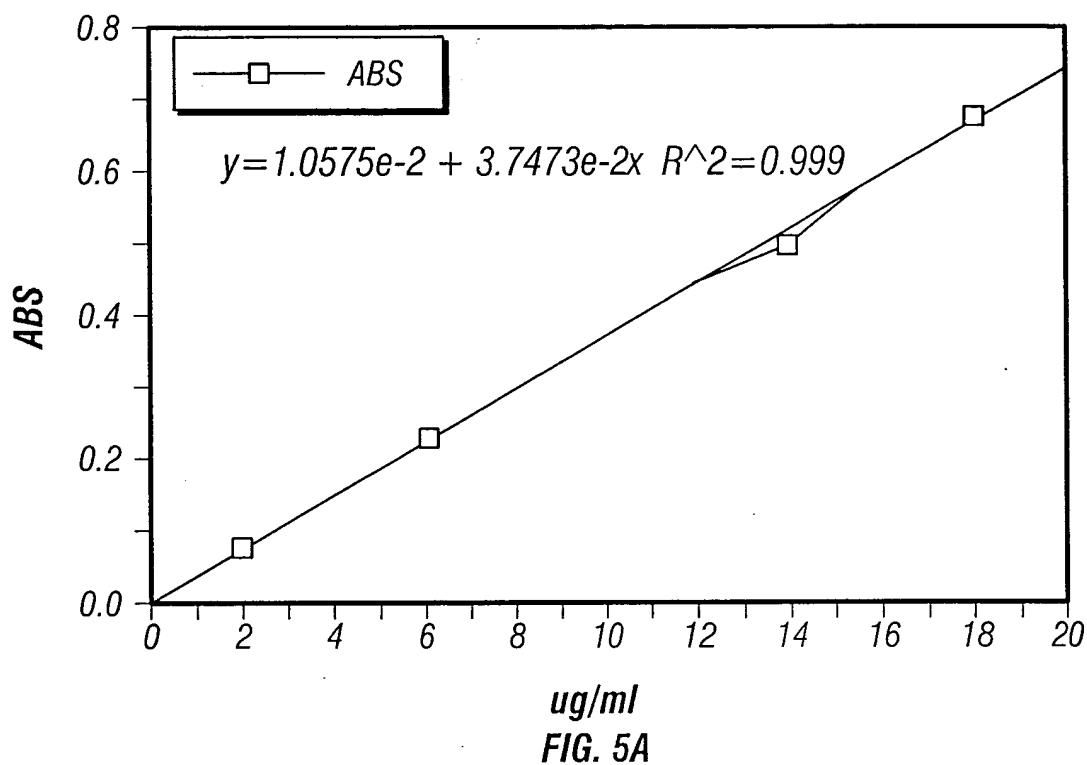


FIG. 5A

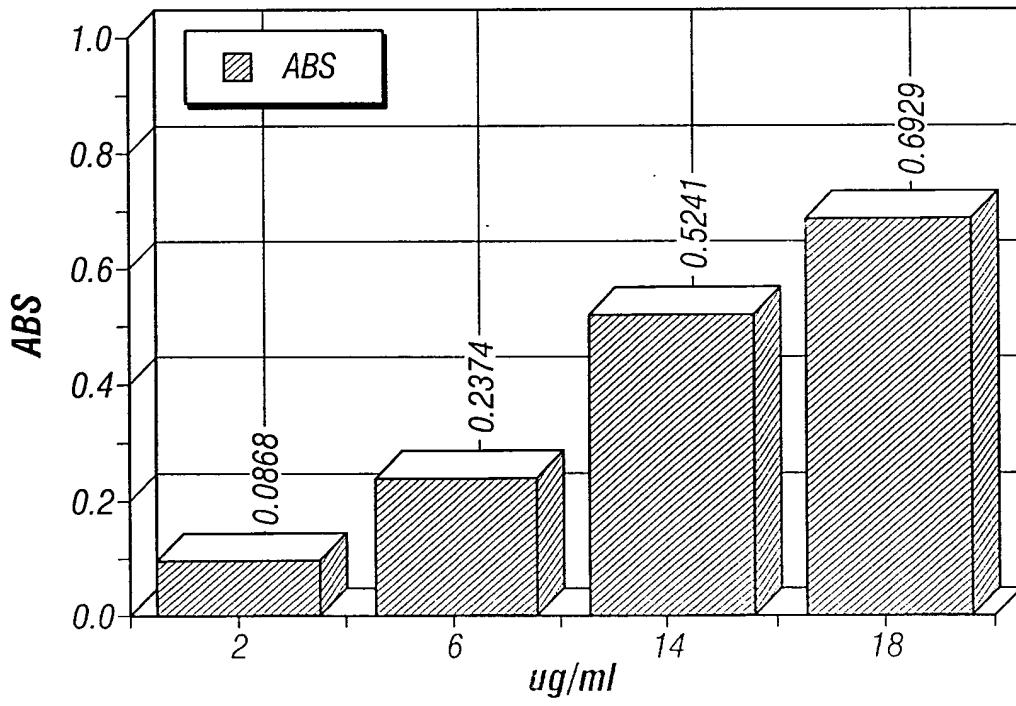


FIG. 5B

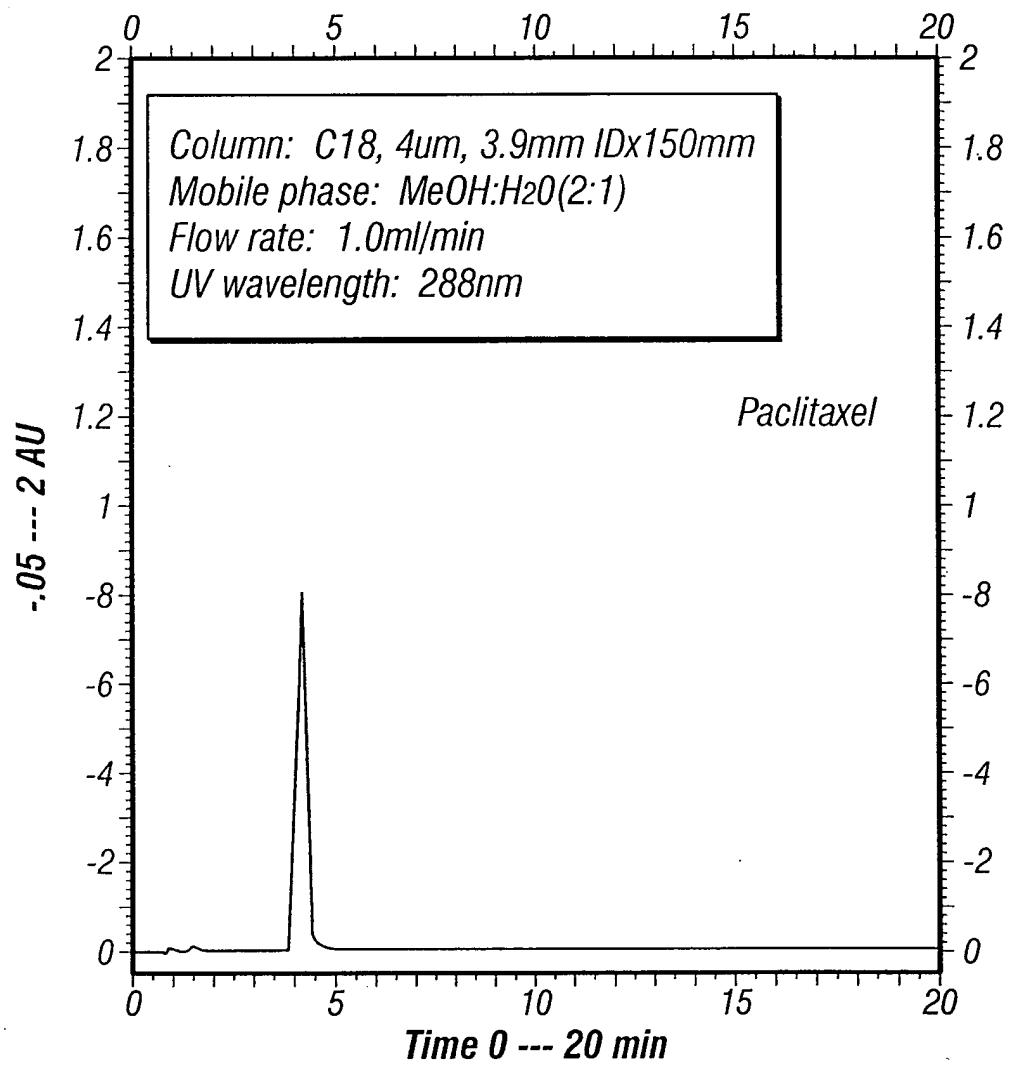


FIG. 6

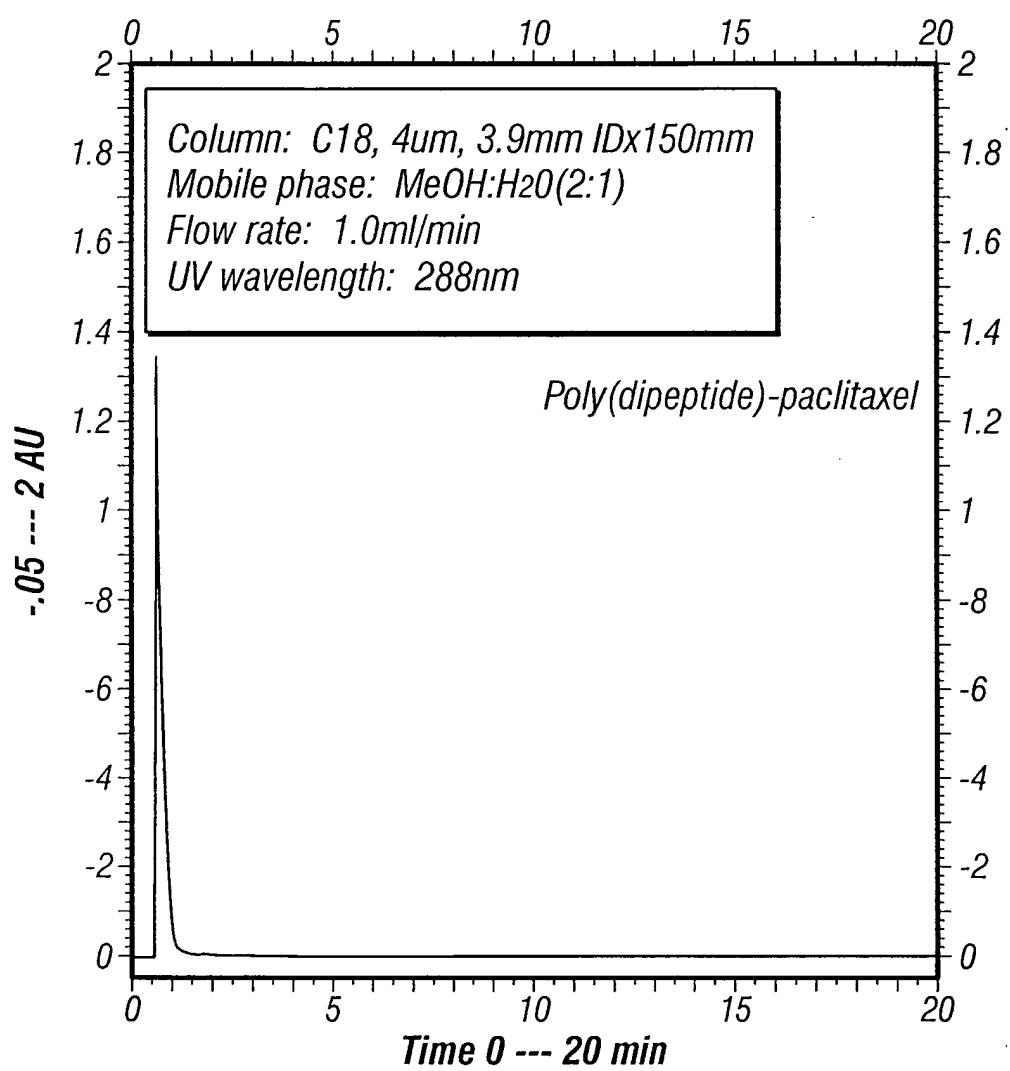


FIG. 7

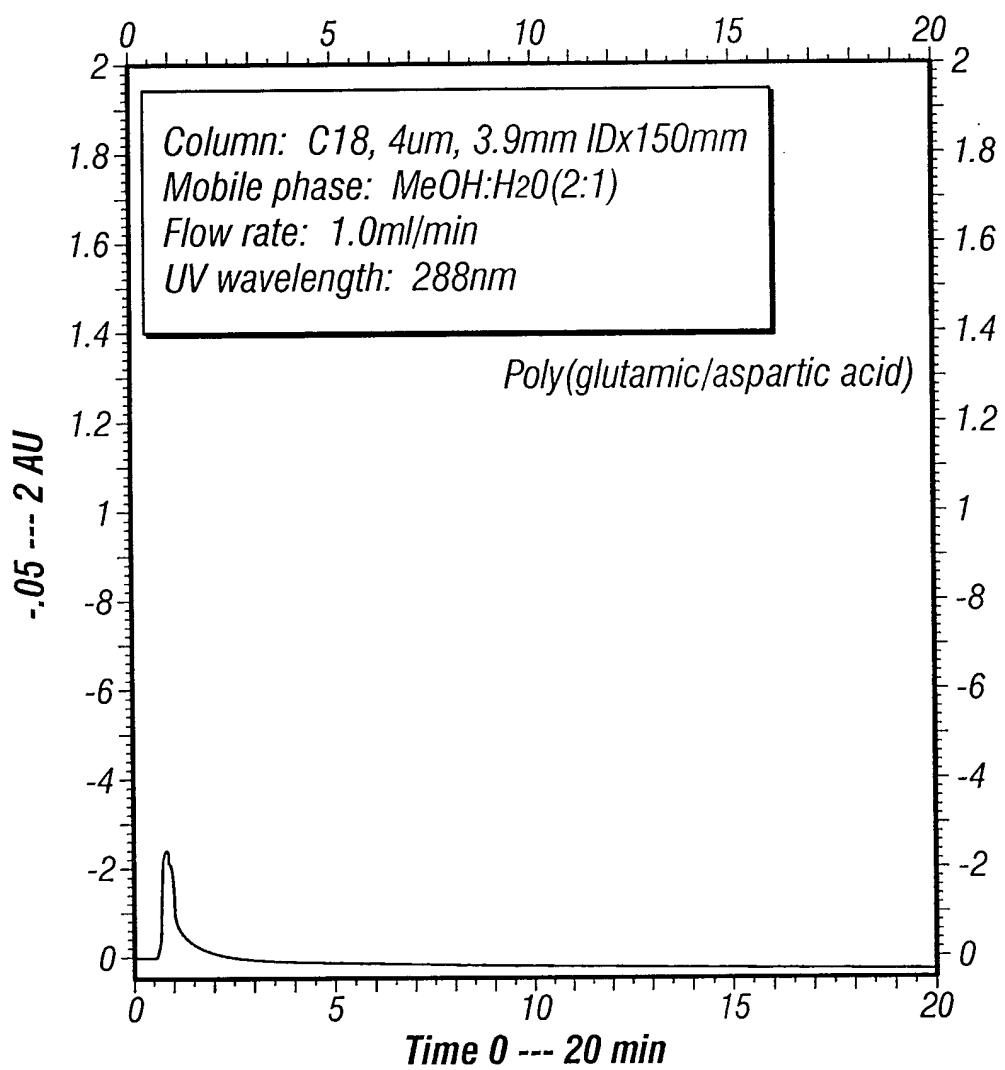


FIG. 8

Column: C₁₈, 4μm, 3.9mm IDx150mm
Mobile phase: MeOH:H₂O(2:1)
Flow rate: 1.0ml/min
UV wavelength: 288nm

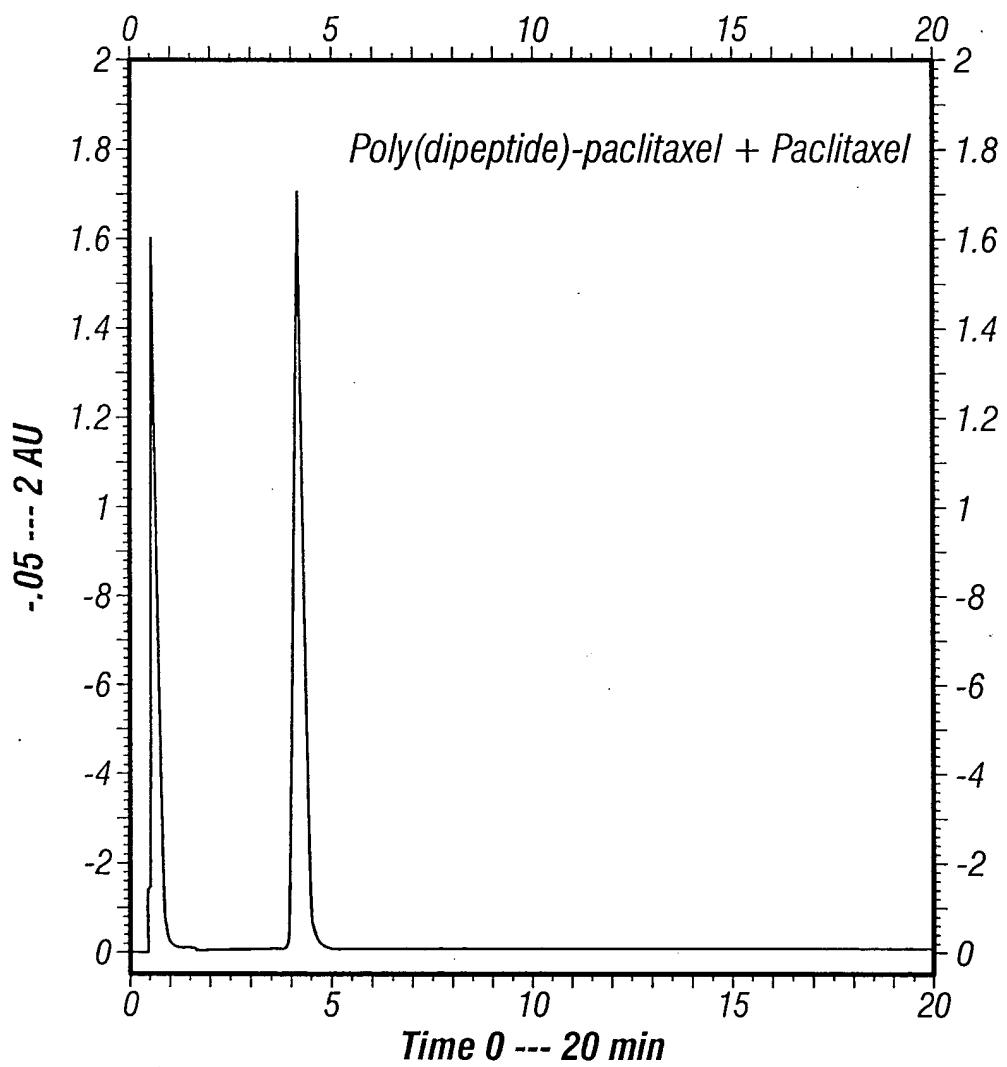


FIG. 9A

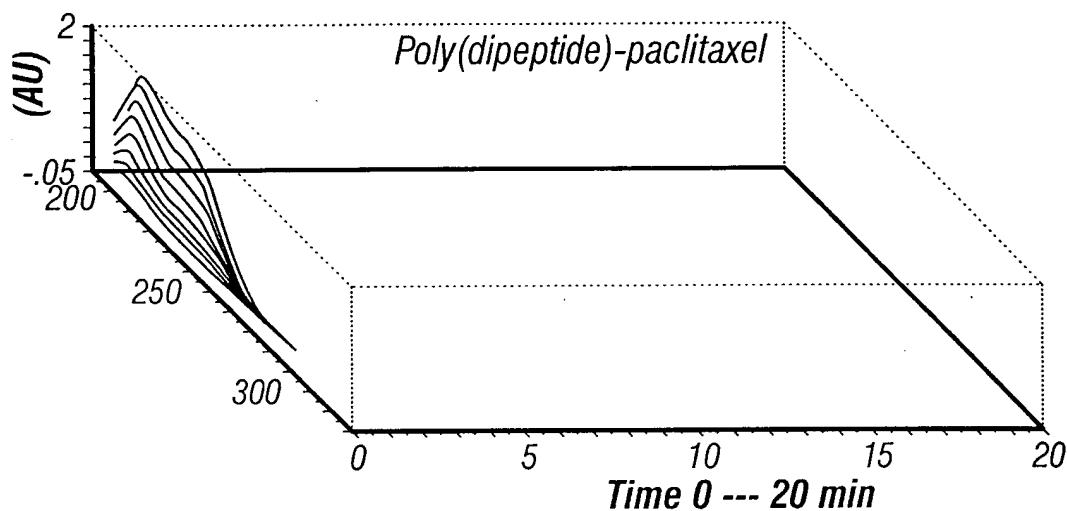


FIG. 9B

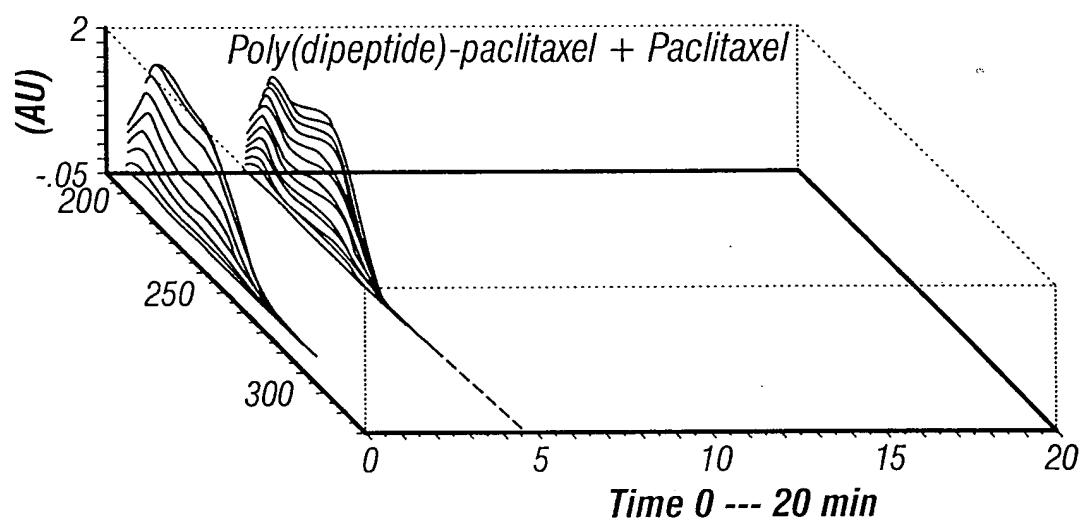
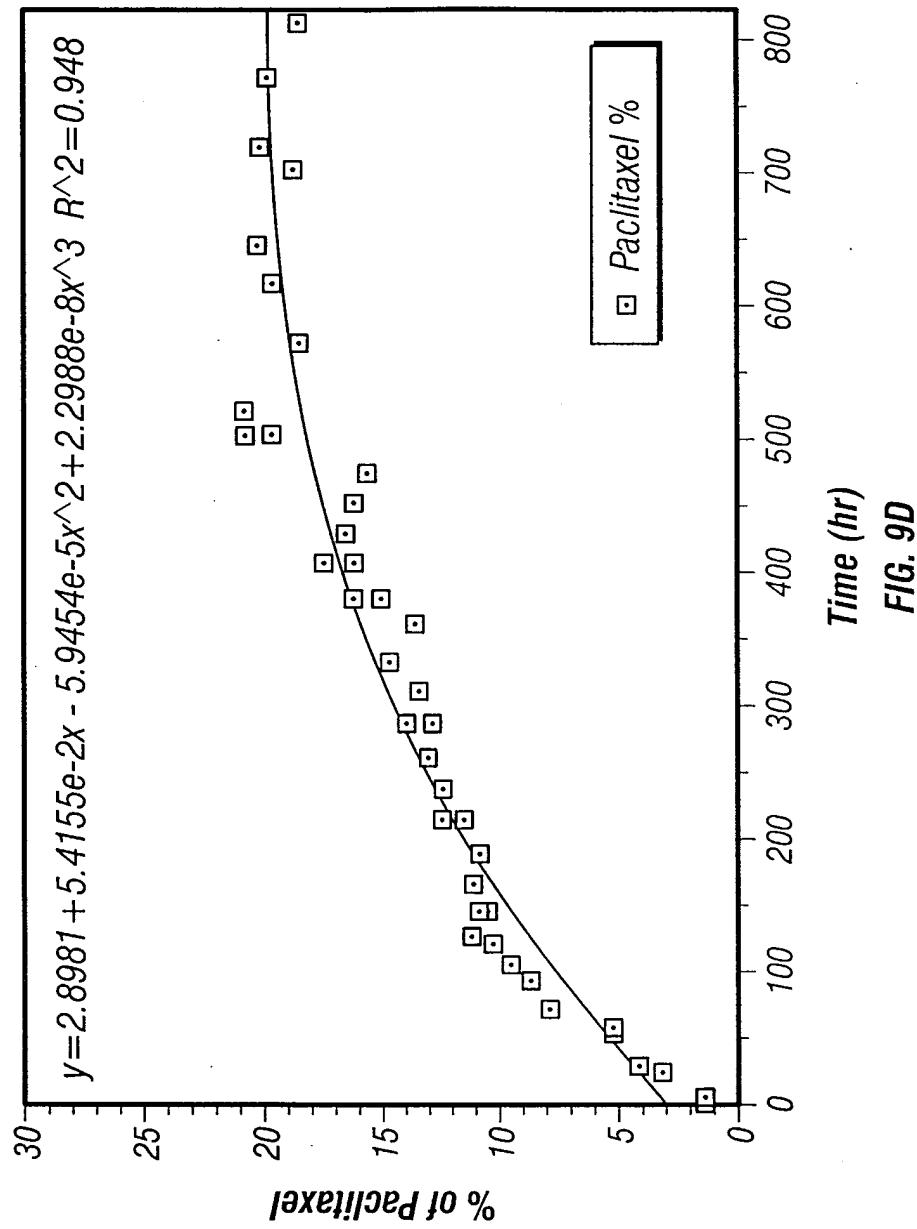


FIG. 9C



$$K = \frac{2.303}{t} \log \frac{C_0}{C} = \frac{2.303}{814 \text{ hrs}} \log \frac{98.623\%}{81.225\%} = 2.3847 \times 10^{-1} \text{ hrs}$$

Half Life

$$t_{1/2} = \frac{2.303}{K} \log \frac{C_0}{C_0/2} = \frac{2.303}{K} \log 2 = \frac{0.693}{K} = \frac{0.693}{2.3847 \times 10^{-4} \text{ hrs}} = 2906.0 \text{ hrs} = 121.08 \text{ days}$$

Useful Life

$$t_{1/10} = \frac{2.303}{K} \log \frac{100}{10} = \frac{2.303}{K} = \frac{0.1054}{K} = \frac{0.1054}{2.3847 \times 10^{-4} \text{ hrs}} = 441.98 \text{ hrs} = 18.4 \text{ days}$$

FIG. 9E

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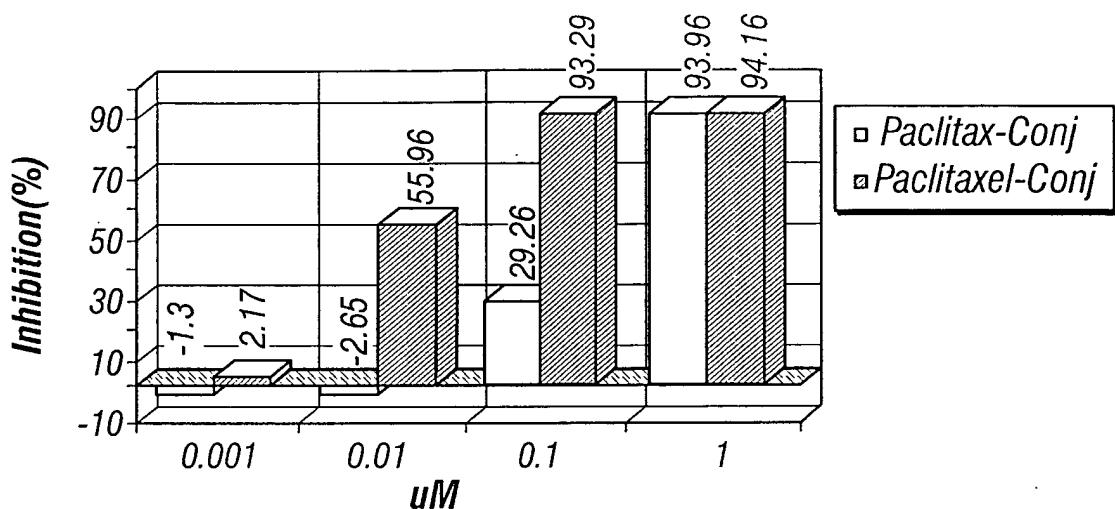


FIG. 9F-1

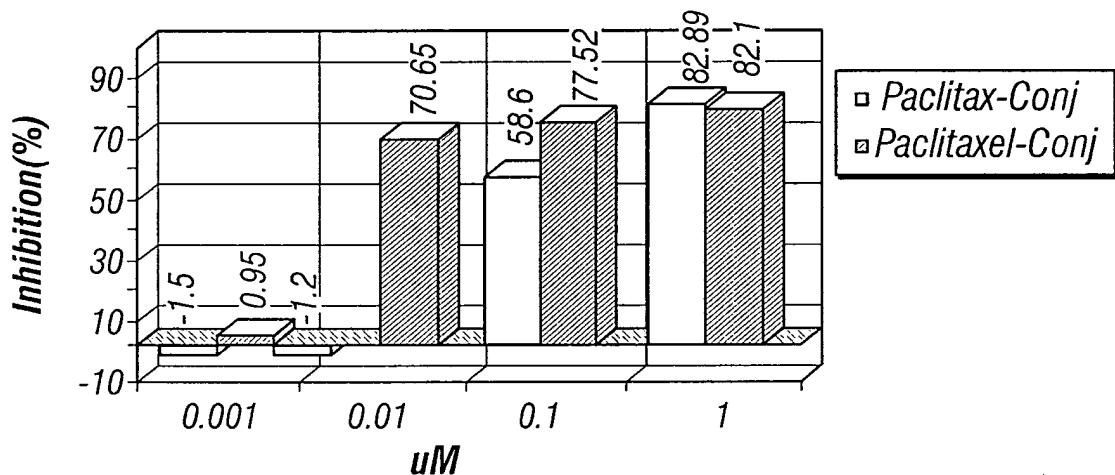


FIG. 9F-2

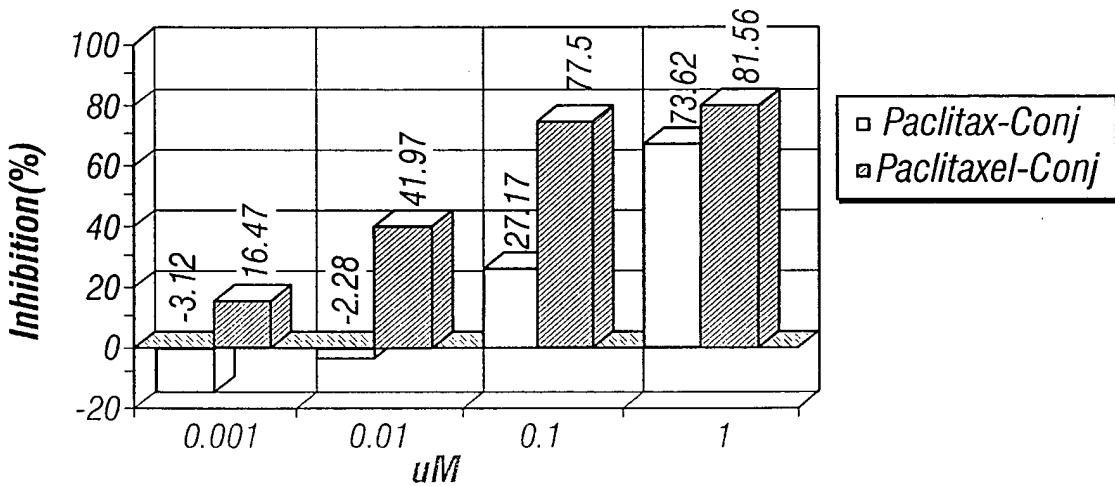


FIG. 9F-3

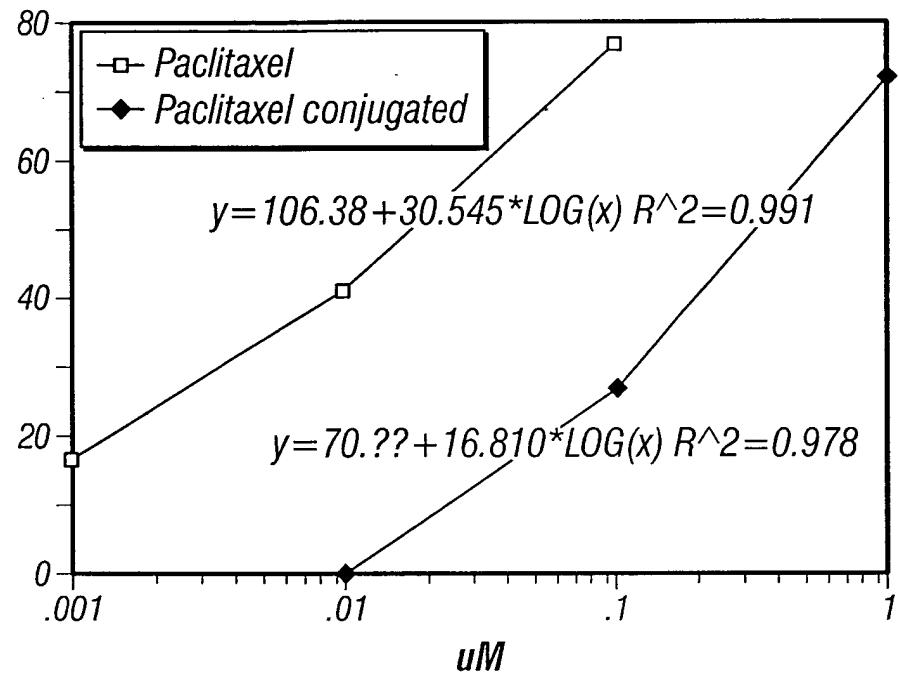


FIG. 9G

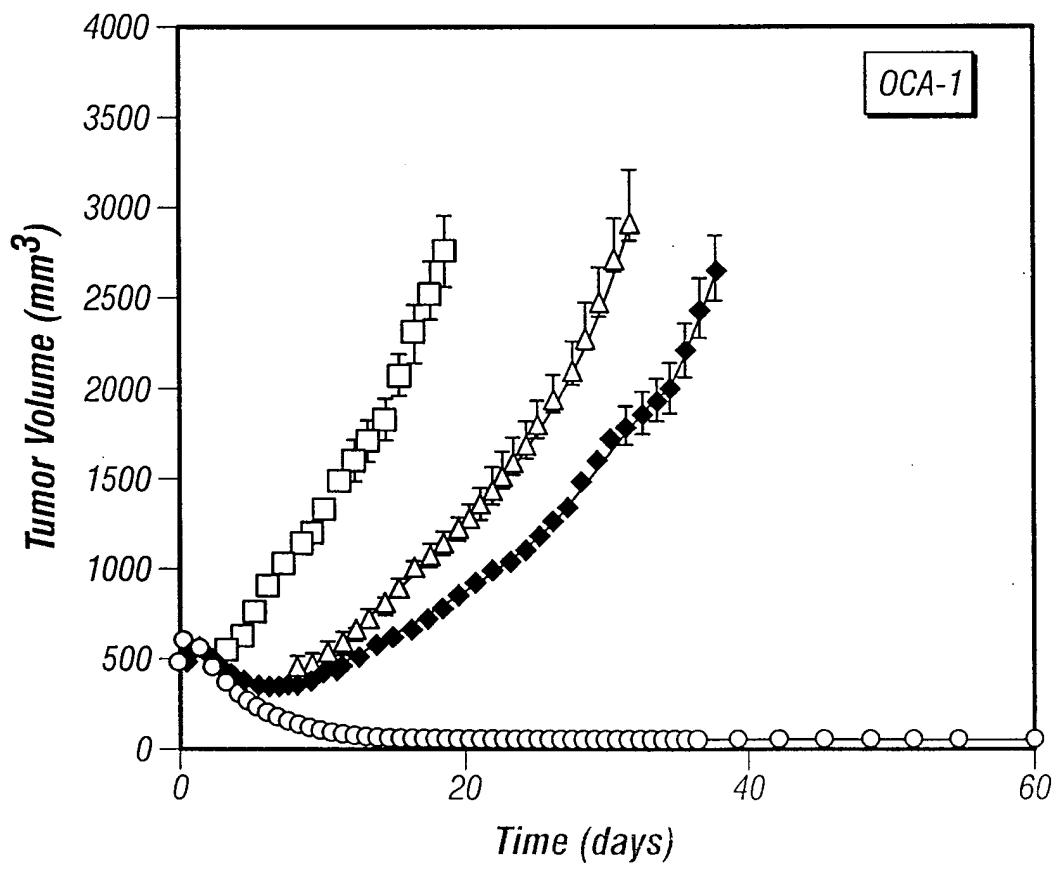


FIG. 11

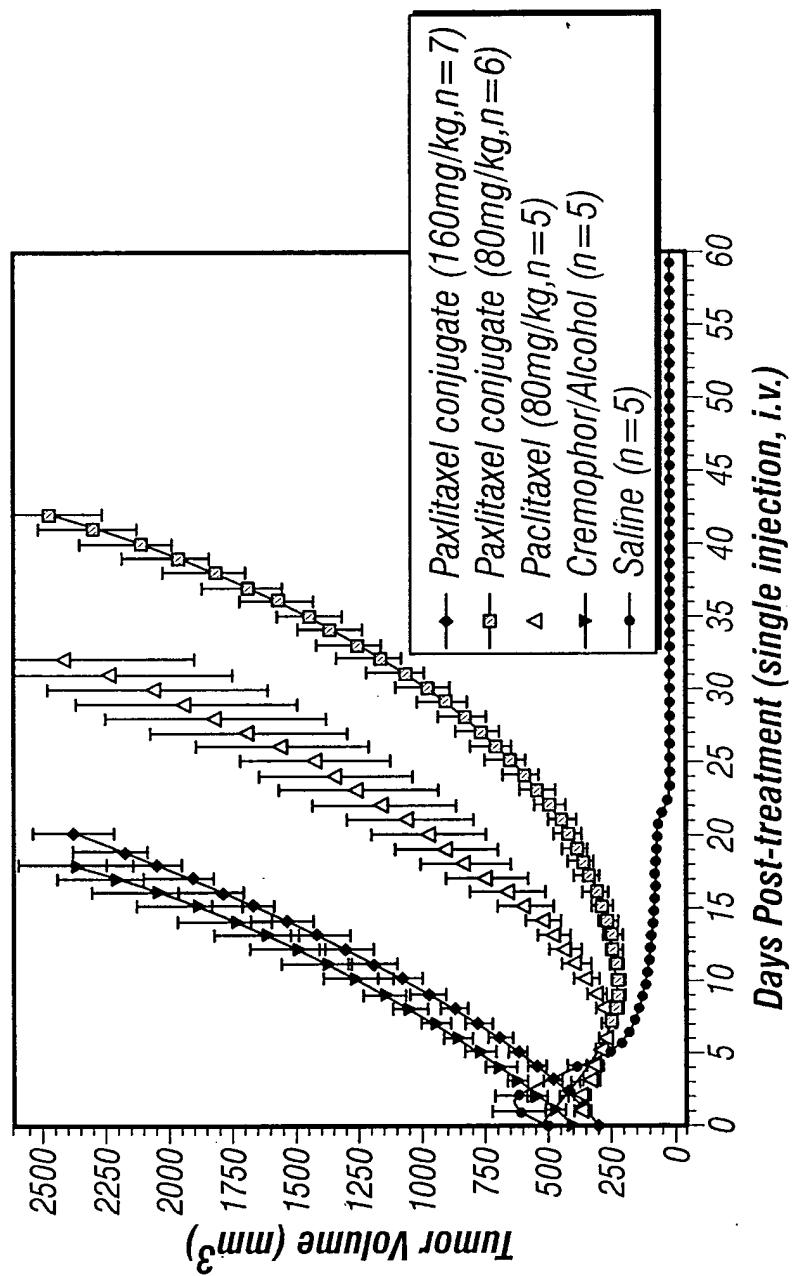


FIG. 10

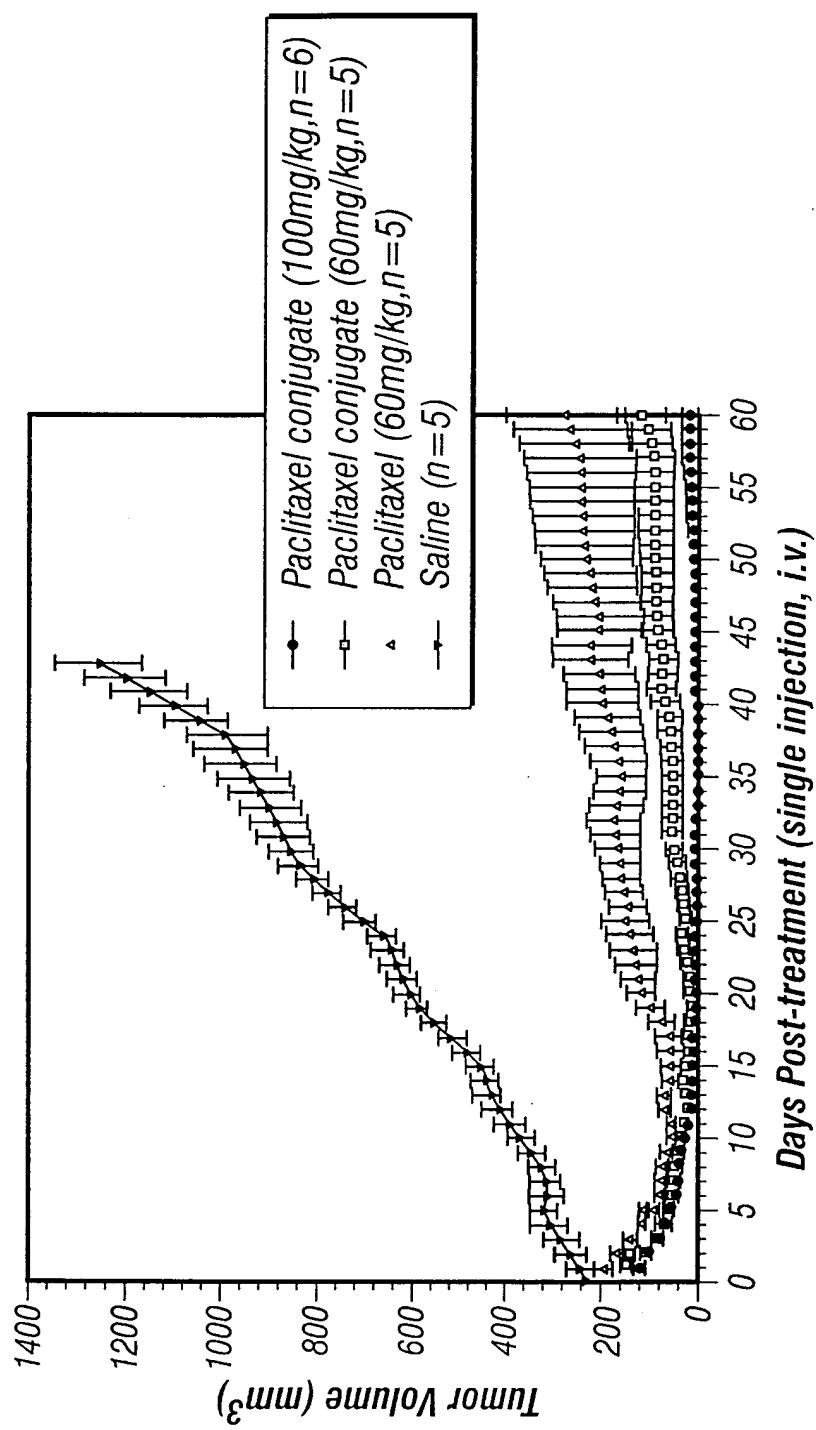
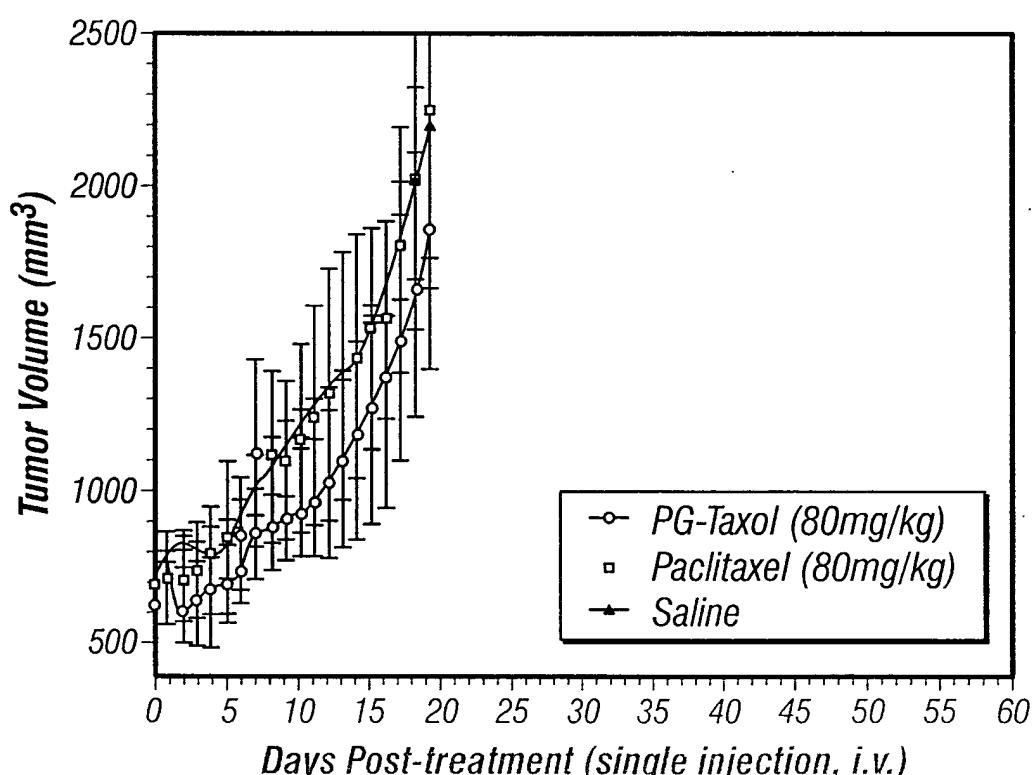
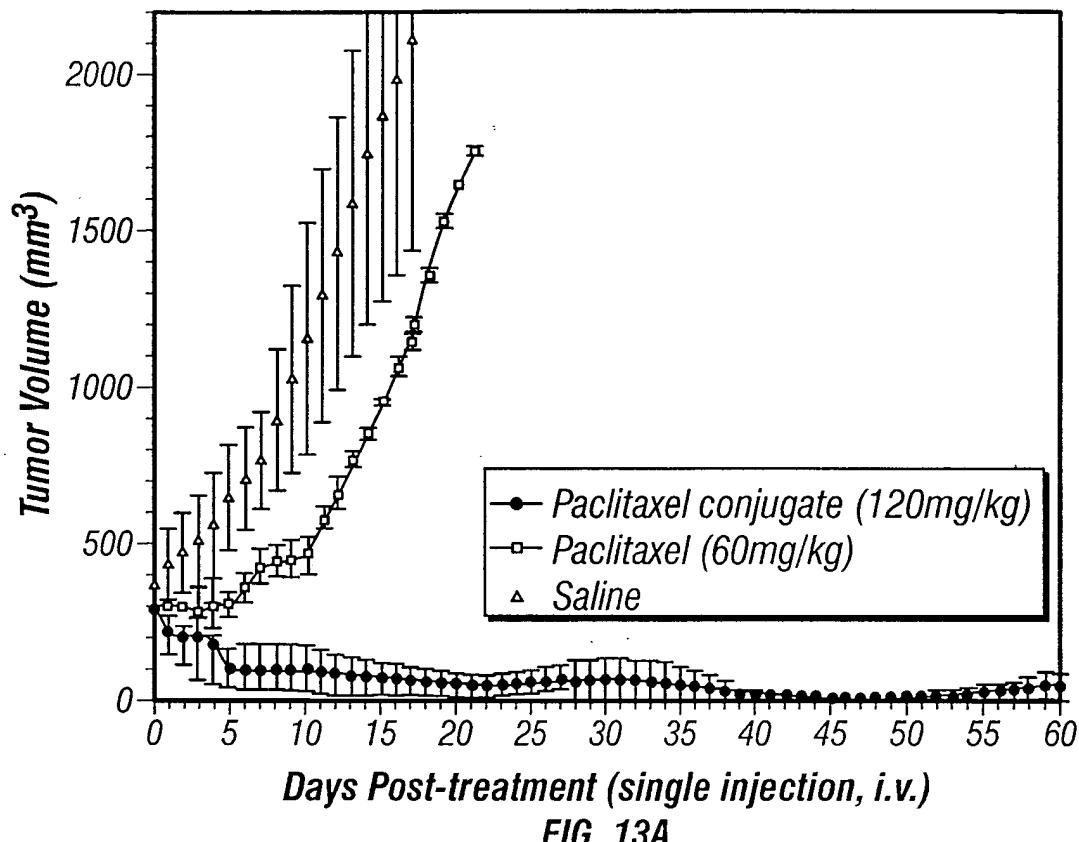


FIG. 12



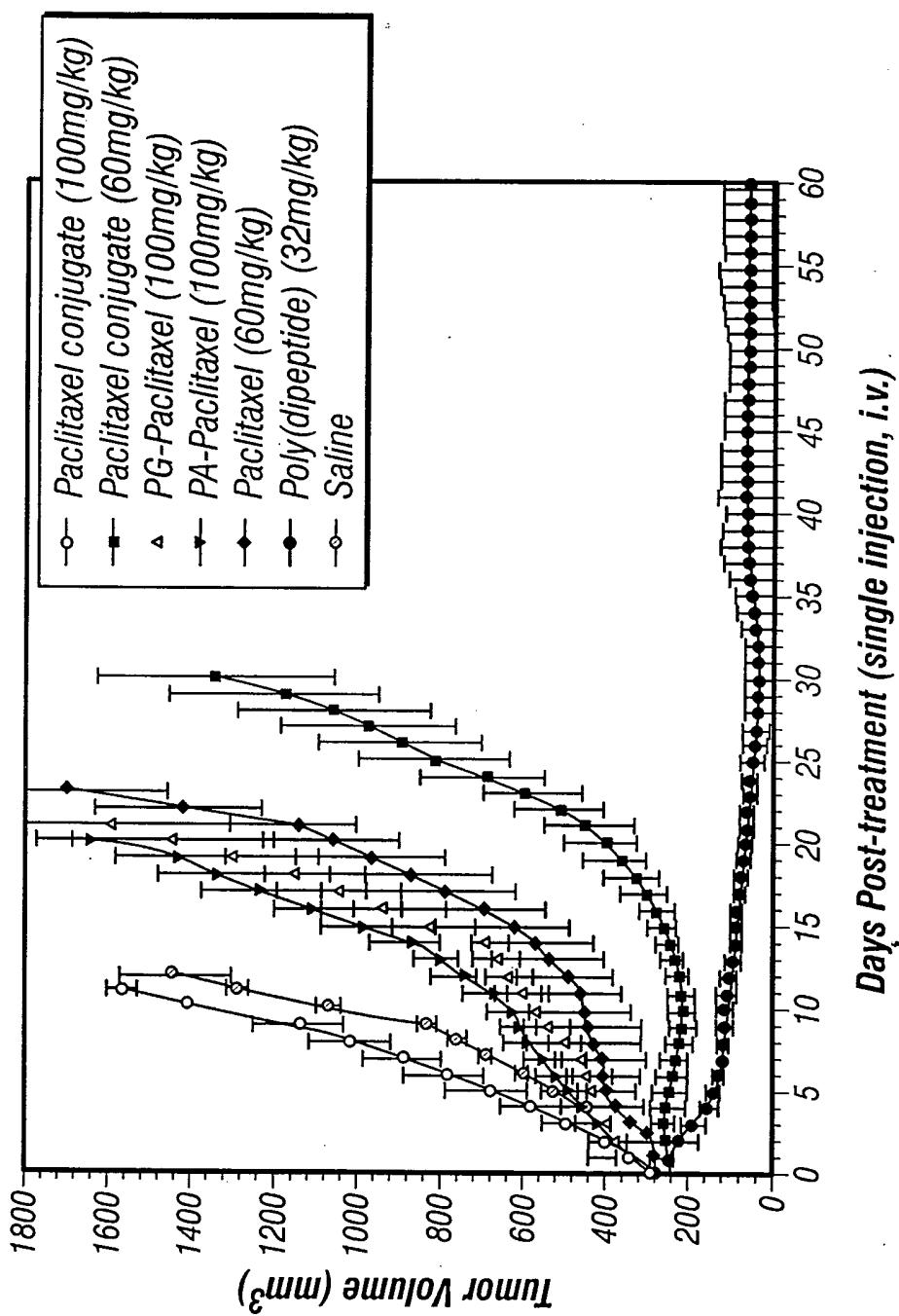


FIG. 14

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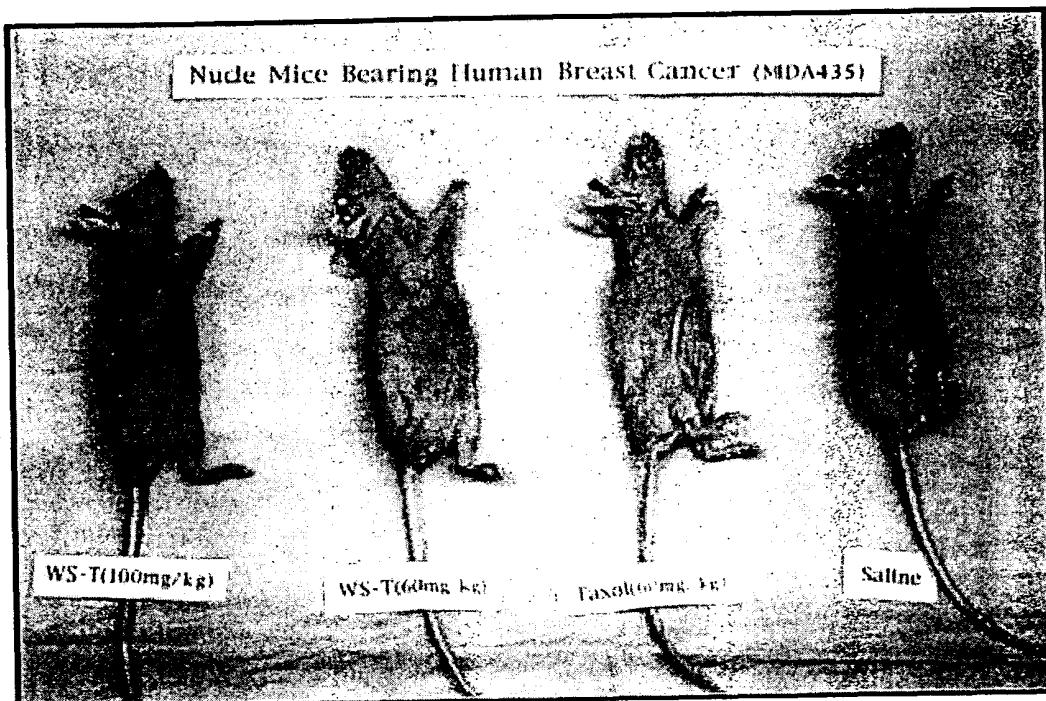


FIG. 15A



FIG. 15B

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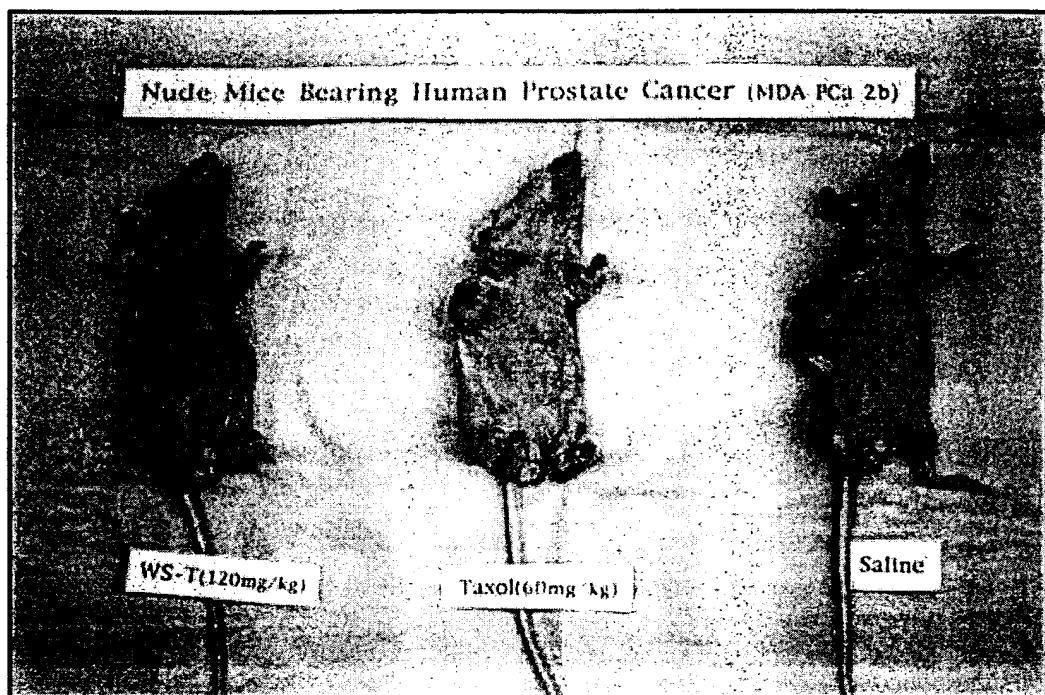


FIG. 16

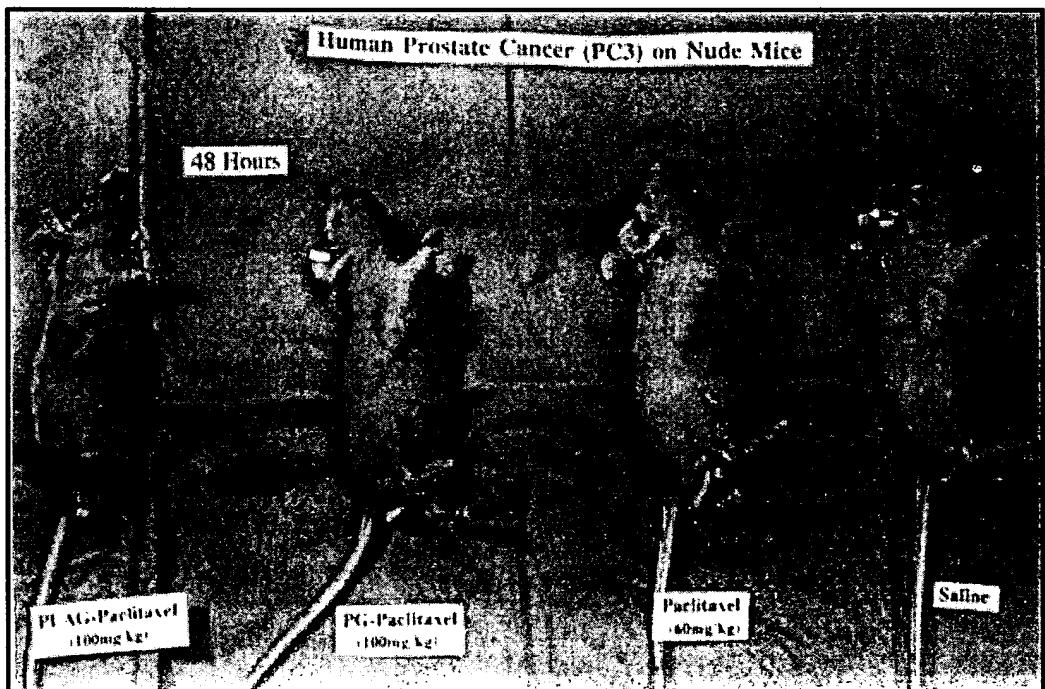


FIG. 17A

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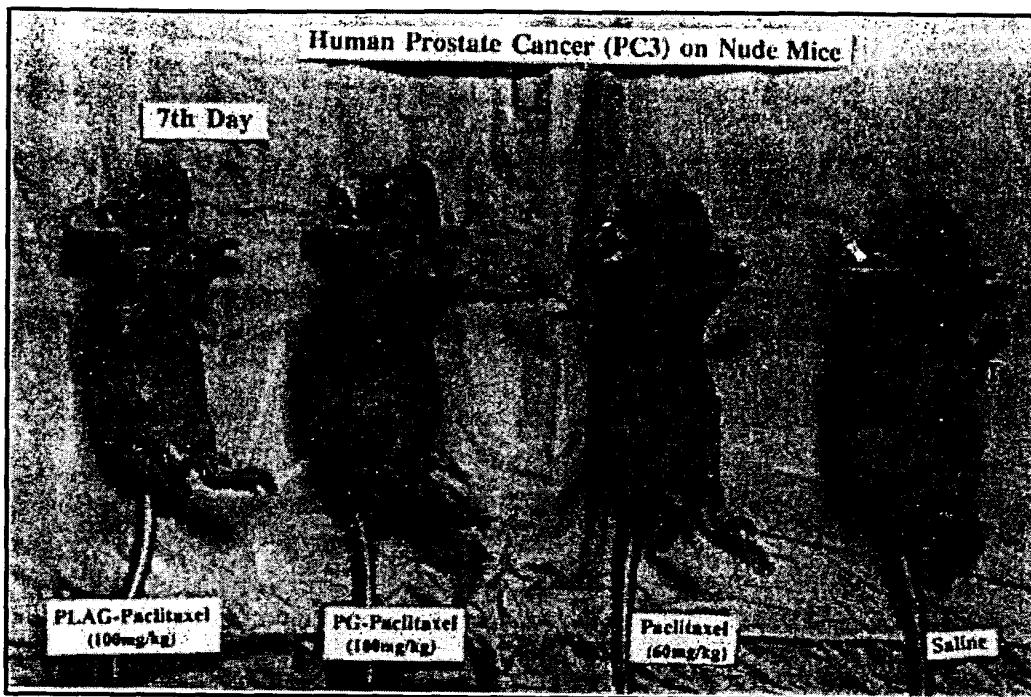


FIG. 17B

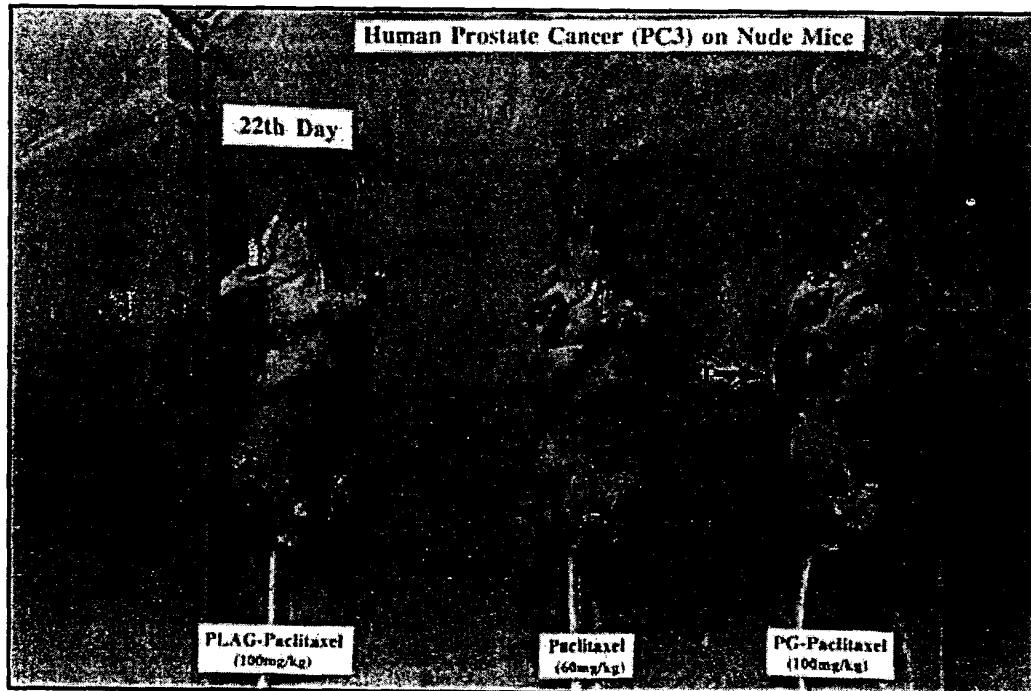


FIG. 17C

Mol Percent Report

Sample ID: 01902007 (initiated 1/19/99 9:52pm) BASELINE CORRECTED

<i>Turntable Position : 3 A</i>	<i>Sampling Interval : 1.0 sec</i>
<i>Data Start : 3.00 min</i>	<i>Samples In Run : 72</i>
<i>Data Duration : 16.00 min</i>	<i>Operator ID :</i>
<i>Peak Ht Threshold : 3000 uAU</i>	<i>Int. Std. Amt : 250 pmol</i>

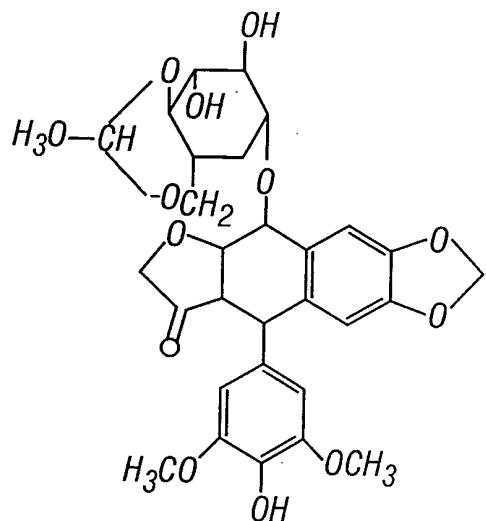
<i>Calibration File : 19JANCAL</i>	<i>(initiated 1/20/99 8:48am)</i>
<i>Reference Time : 0.00 min</i>	<i>(No ISTD Peak Specified)</i>
<i>Reference Offset 1: 0.00 min</i>	
<i>Reference Offset 2: 0.00 min</i>	

Integration Interval : 0.0 to 16.0 min

<i>PEAK ID</i>	<i>RET. TIME min</i>	<i>PMOL BY HEIGHT</i>	<i>PMOL correc. INT SYD</i>	<i>MOL %</i>
ASX	2.32	724.75	0.00	38.17
GLX	2.72	1173.96	0.00	61.83

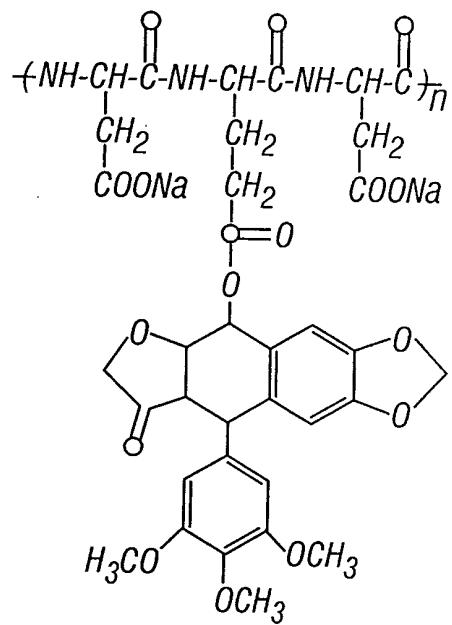
TOTAL PMOLS RECOVERED 1898.71

<i>Minimum Peak Threshold: 3000 uAU</i>	<i>(54 peaks below threshold)</i>
	<i>(8 peaks found)</i>
	<i>(2 peaks matched)</i>



Etoposide

FIG. 19A



Poly(G/A)-podophyllotoxin

FIG. 19B

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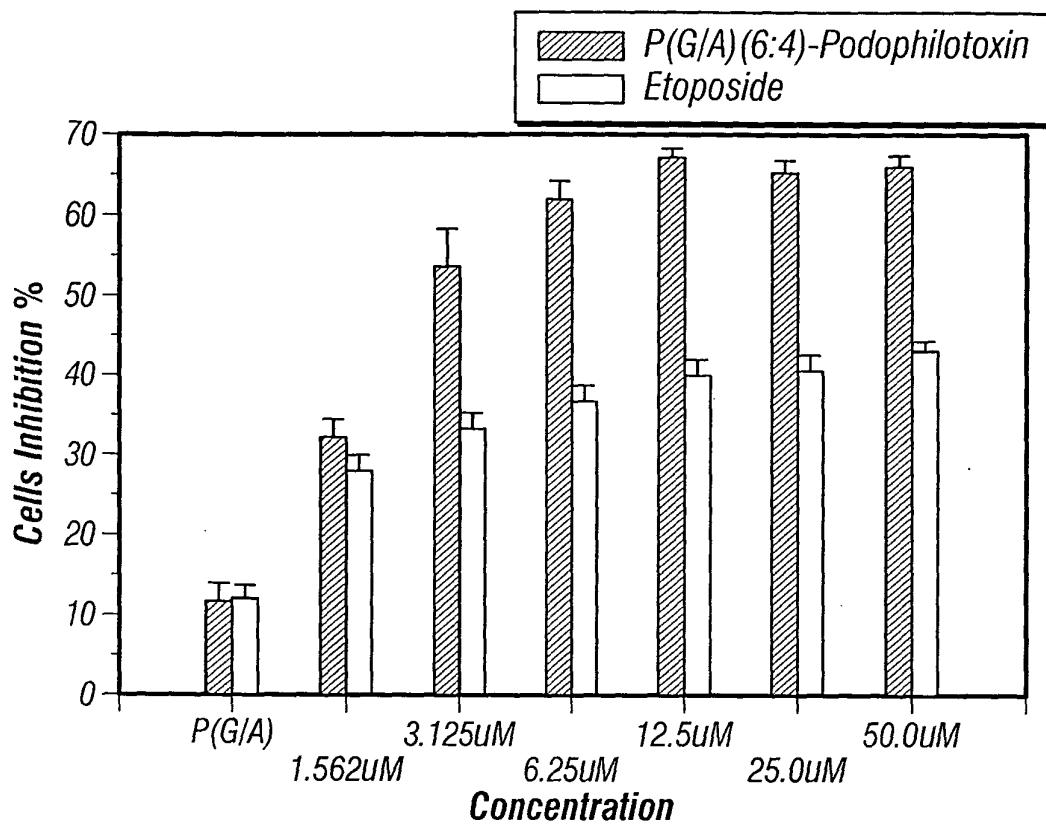


FIG. 20A

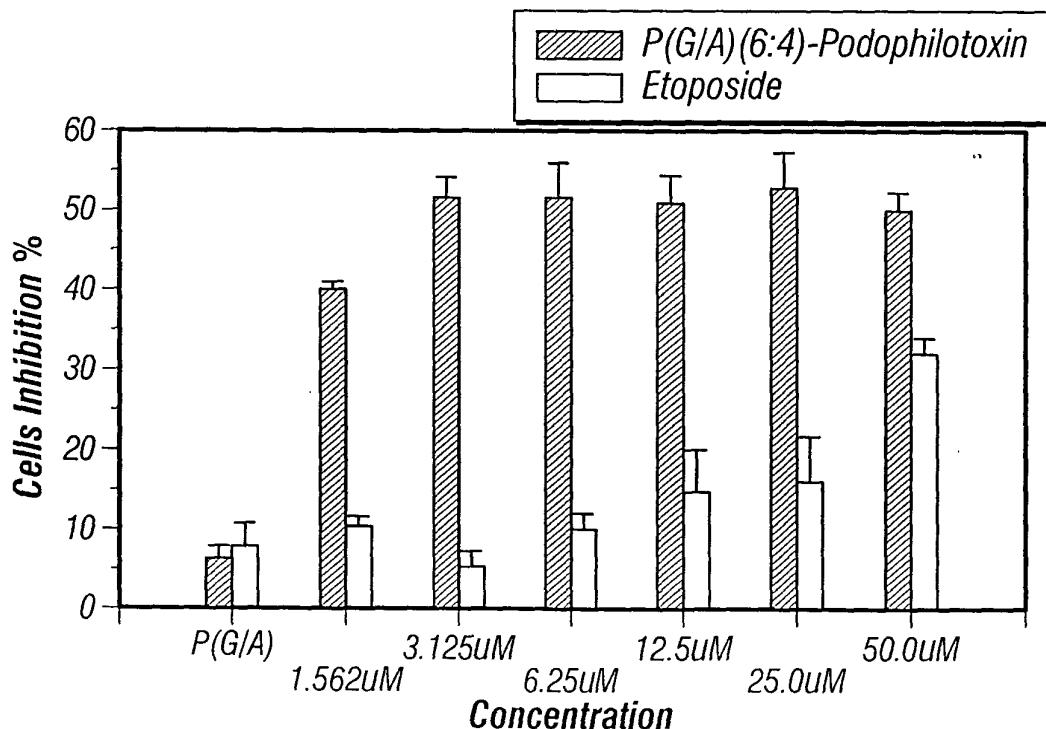


FIG. 20B